

State of Wisconsin Dept. of Natural Resources

Medical Waste



REFERENCES: HEALTH CARE & MEDICAL WASTES

This fact sheet lists references, web sites and organizations that offer technical assistance or can reuse medical equipment and supplies. The Wisconsin Department of Natural Resources (DNR) is unable to distribute copies of the references listed here but does offer other publications on the Medical Waste Publication Order Form, PUBL-WA-811. Many publications listed here should be available from interlibrary loan through your library or may be purchased from the publisher. Your librarian may contact the DNR library at (608) 266-8933 for help finding a document. Please note that inclusion in this list does not imply that the information contained in a reference is consistent with Wisconsin law or regulations.

What to read?

An Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities Connie L. Bisson, Glenn McRae and Hollie G. Shaner. 1993. Guidebook for Hospital Waste Reduction Planning and Program Implementation Hollie Shaner and Glenn McRae. 1996. American Society for Healthcare Environmental Services, American Hospital Association. Contact: (800) AHA-2626. Cost: "An ounce..." (doc. #O57007) and "Guidebook..." (doc. #057037) are \$75 each. Order both as a set (doc. #O57038) for \$125. AHA members pay less.

Becoming a Mercury-Free Facility: A Priority to be Achieved by the Year 2000 Hollie Shaner. American Society for Healthcare Environmental Services, 1997. Contact: American Hospital Association. Phone: (800) AHA-2626. Catalog #197103. Cost: \$25.

Dental Office Waste Stream Characterization Study: Municipality of Metropolitan Seattle Cynthia Welland. Seattle Metro, 1991. Contact: King County Local Hazardous Waste Management Program, 130 Nickerson Street, Suite 10 Seattle, WA 98109-1658. Phone: (206) 689-3075.

Environmental Management Guide for Small Laboratories EPA 233-B-98-001 July 1998. Contact: Office of Small Business Ombudsman (2131), US Environmental Protection Agency, 401 M Street, Washington, DC 20460. Phone: (202) 260-0490. Cost: free.

Environment of Care® Survey Kit for Hospitals Your complete guide to the EC standards for the Hospital Accreditation Program. Joint Commission on Accreditation of Healthcare Organizations. Updated annually. Contact: JCAHO, PO Box 75751, Chicago IL 60675-5751. Phone: (630) 792-5800. Cost: \$50. Order code: ECS-99LH. Web: http://www.jcaho.org

Greening Hospitals: An Analysis of Pollution Prevention in America's Top Hospitals Environmental Working Group. Copyright June 1998, revised October 1998. Contact Health Care Without Harm, c/o Center for Health, Environment and Justice, PO Box 6806, Falls Church, VA 22040 Phone: (703) 237-2249 Email: cchw@essential.org Electronic copy: http://www.noharm.org

Hospital Plastics Characterization And Recycling Feasibility Study Cascade Consulting Group and American Plastics Council, 1994. Contact: APC, 1801 K Street NW, Suite 701L, Washington, DC 20006. Phone: (800) 243-5790. Electronic copy: http://www.plasticsresource.com Cost: single copies are free.

Hospital Pollution Prevention Case Study U.S. EPA Risk Reduction Engineering Laboratory. Cincinnati, OH. August 1992. Contact: National Technical Information Service, 5285 Port Royal Rd. Springfield, VA 22161. Phone: (800) 553-6847 OR (703) 605-6000. Cost: \$27 plus shipping and handling. Document number NTIS PB91-216 440/AS. A condensed version is available from DNR.

Managing the Cost of Waste at Health Care Facilities: Solid, Medical and Hazardous Waste (proceedings from Waste Expo 1998). Contact: Medical Waste Institute, 4301 Connecticut Avenue NW, Suite 300, Washington, DC 20008. Phone: (202) 244-4700. Fax: (202) 966-4818. Cost: \$25.

Medcycle: Opportunities for Nurses as Front-line Recyclers Connie Leach and Hollie Shaner. Medical Center Hospital of Vermont, 1991. Contact: The Nightengale Institute for Health and the Environment, 5 Ridge Road, Essex Junction, VT 05453 Phone: (802) 878-1920. Fax: (802) 878-9507. Cost: Inquire.

Mercury in Dental Facilities Massachusetts Water Resources Authority, Sewerage Division, Toxic Reduction and Control Department, September 1997. Contact: Karen Rondeau, Massachusetts Water Resources Authority, 100 First Avenue, Carlestown, MA 02129. Phone: (617) 242-6000. Electronic copy: http://www.mwra.state.ma.us

Mercury in the Health Care Sector: The Cost of Alternative Products Pollution Probe, 1996. Contact: Pollution Probe, 12 Madison Avenue, Toronto, Canada M5R 2S1. Phone: (416) 926-1907. Fax: (416) 926-1601. Email: pprobe@pollutionprobe.org Executive summary and ordering: http://www.pollutionprobe.org/ (click on "Mercury"). Cost: \$17 plus postage.

Mercury Pollution Prevention in Health Care--A Prescription for Success Williams, Guy. National Wildlife Federation, July 1997. Contact: Great Lakes Natural Resource Center, 506 East Liberty, Second Floor, Ann Arbor, MI 48104-2210. Phone: (734) 769-3351. Fax: (734) 769-1449. E-mail: nwfgrlks@igc.apc.org. Cost: \$6. Electronic copy: http://www.nwf.org/greatlakes/pp/hosprpt.html

Minnesota Hospital Association Recycling & Conservation Guide and Minnesota Hospital Association Waste Not Book Minnesota Hospital and HealthCare Partnership. Contact: MHHP Public Affairs Division, 2550 University Ave. West, Suite 350 South, St. Paul, MN 55114. Phone: (612) 641-1121. Fax: (612) 659-1477.

Operating with a New Attitude Katherine Esposito. Wisconsin Natural Resources magazine, October/November 1997. Electronic copy: http://www.wnrmag.com/stories/1997/oct97/medwaste.htm

Packaging for the Environment: A Partnership in Progress E.J. Stillwell and A.D. Little. American Management Assoc., 1991. Contact: The Stillwell Group, PO Box 189, 5 Arrowhead Farm Rd, Boxford MA 01921.

Pollution Prevention Works for Iowa: Health Care Case Summaries. Iowa Waste Reduction Assistance Program. Contact: Brian Tormey, WRAP, Waste Management Assistance Division, 502 E. 9th Street, DesMoines, IA 50319-0034. Phone: (515) 281-8927 Web site http://www.state.ia.us/government/dnr/organiza/wmad/index.html (click on Pollution Prevention).

Reducing Mercury Use in Health Care/Promoting a Healthier Environment: A How-to Manual Monroe County Department of Health, 1999. Contact: Carole Beale, 111 Westfield Road, PO Box 92832,

Rochester, NY 14692. Phone: (716) 292-3935. Email: cbeal@rochester.lib.ny.us Electronic copy: http://www.epa.gov/glnpo/bns/merchealth/

Reference Point: OSHA and the Veterinary Practice Marshfield Laboratories, 1/30/95 and 7/24/95. Contact: Susan Jahnke, Marshfield Laboratories. Phone: (800) 782-8581, ext. 75003, leave a message.

Transportation of Regulated Medical Waste: Compliance Assistance Document Contact: Medical Waste Institute, 4301 Connecticut Avenue NW, Suite 300, Washington, DC 20008. Phone: (202) 244-4700. Fax: (202) 966-4818. Cost: \$10.

Waste Consciousness Leads to the Return of Washable Dishes - Case Study Michigan Environmental Assistance Center, Oct 1996. Contact: EAC, MI Dept. of Environmental Quality, PO Box 30457, Lansing, MI 48909-7957. Phone: (800) 662-9278. Order # 9105A.

Writing a Waste Reduction Plan for Health Care Organization Keith Ridley. University of Tennessee Center for Industrial Services, 1995. Contact: Albert Teiche, UT Center for Industrial Services, 226 Capitol Boulevard Building, Suite 606, Nashville, TN 37219. Phone: (615) 532-4926. Cost: Inquire (< \$20).

What to watch?

Sharps collection "Using the Household Sharps Collection Program" for home generators and "Sharps Collection Station Training" for station operators and employees. Brown County Health Dept., Brown County, Wisconsin. Contact: Judy Friedrichs. Phone (920) 448-6404. Cost: approx. \$100 for 2 generic videos and training packet.

Hospital waste reduction "No Time to Waste: Resource Conservation for Hospitals," 30 minute video and workbook, for those setting up waste reduction programs. Contact: Fanlight Productions. Phone: (800) 937-4113. FAX: (617) 469-3379. E-mail: fanlight@fanlight.com Web: http://www.fanlight.com (click on Environmental health). Cost: \$145. Order No. OA-156.

"Managing your Medwaste for a Healthier Bottom Line," a Fall, 1996 teleconference on medical waste reduction. Four video set with manual. Contact: Kentucky Pollution Prevention Center, Attn: Teleconference Videos, Suite 420, New Academic Building, University of Louisville, Louisville, KY 40292 Web ordering: http://www.kppc.org/Publications/medwastevideo.html Cost: \$145. Phone: (502) 852-0965. FAX: (502) 852-0964.

"A New Prescription: Pollution Prevention Strategies for the Health Care Industry," October 7, 1998 conference on medical waste prevention. To purchase or borrow videotapes, contact: Lara Sutherland, Massachusetts Office of Technical Assistance, 100 Cambridge Street, Room 2109, Boston, MA 02202. Email: Lara.Sutherland@state.ma.us Phone: (617) 727-3260 ext. 683. Web site (includes proceedings): http://www.magnet.state.ma.us/ota/MedP2old.htm

Mercury "Mercury and the health care professional." Identifies sources of mercury in health care and mercury-free alternatives. Minnesota Office of Environmental Assistance, 1997. Contact: OEA Education Clearinghouse. Phone: (612) 215-0232 or (800) 877-6300. Available for free two-week loan.

Biosafety The Office of Biosafety, Health Canada, has over 50 videos on biosafety. Contact: Office of Biosafety, Laboratory Center for Disease Control, HPB Building #7 Room 26-B, Tunney's Pasture, Ottawa, ON K1A 0L2 Web: http://www.hc-sc.g.ca/hpb/lcdc/biosafety/docs/film/order_e.html Fax: (613) 941-0596. Email: office biosafety@hc-sc.g.ca

Where to "Surf"?

The web addresses below were current in August 1999. For more information about many of these web sites, see "Who offers technical assistance?" below.

Mercury reduction

http://www.epa.gov/glnpo/bns/merchealth/ -- USEPA. Reducing Mercury Use in Health Care/Promoting a Healthier Environment: A How-to Manual.

http://www.nwf.org/greatlakes/pp/hosprpt.html -- Great Lakes Natural Resource Center. Includes information about mercury pollution prevention in health care, geared for the great lakes states.

http://www.epa.gov/reg5oair/glakes/hgfact.htm -- USEPA Region 5. The "Mercury Page" for proper handling and disposal of mercury wastes from health care.

http://www.epa.gov/seahome/mercury/src/title.htm -- USEPA. Interactive educational software about proper handling and disposal of mercury in medical facilities.

http://www.epa.gov/toxteam/trt_merc.htm -- USEPA Mercury page. Includes Memorandum of Understanding about medical waste reduction, signed by USEPA and the American Hospital Association.

http://www.masco.org/mercury/ -- Massachusetts Water Resources Authority/Medical Academic and Scientific Community Organization, Inc. Hospital Mercury work group project.

Waste management and waste reduction

http://www.uml.edu/centers/LCSP/hospitals/ -- The Lowell Center for Sustainable Production of the University of Massachusetts - Lowell. "Sustainable Hospitals" web site. Provides health care personnel with tools, training and technical support to improve the environmental practices of healthcare facilities.

http://www.healthcare-environet.com -- Healthcare Enviro-Net is a network of Canadian healthcare and environmental organizations committed to the promotion of sustainable development in healthcare.

http://www.ciwmb.ca.gov/BizWaste/FactSheets/Hospital.htm -- Waste Prevention World. Waste reduction activities for hospitals.

http://www.orion.org/~owm/health.htm -- Outreach and Extension, University of Missouri, Lincoln. Specific waste reduction recommendations for health care facilities and all types of businesses.

http://www.nmwrc.com -- National Medical Waste Resource Center/Advanced Technologies Systems, LC site dedicated to the exchange of information about treating and disposing of medical waste.

http://www.noharm.org -- Health Care Without Harm: The Campaign for Environmentally Responsible Health Care. Links to Environmental Working Group reports and to "First Do No Harm" (no longer available in hard copy). Alternatives to mercury-containing products. How to reduce plastics.

http://www.albanyonline.com/hrcc -- Healthcare Resources Conservation Coalition (HRCC). Includes publications, bibliography, and links to members and related web sites.

http://ourworld.compuserve.com/homepages/ihcwan/ -- International Health Care Waste Network. Information, training and dialogue for individuals and organizations who are reducing medical waste.

http://www.deq.state.mi.us/ead/tasect/eac.html -- Michigan Environmental Assistance Center.

http://www.dnr.state.wi.us/org/aw/wm/Recycling/recycling.htm - Wis. Recycling Markets Directory.

http://www.recycle.net -- Recycler's World. Recovery and recycling of wastes such as batteries, mercury, fluorescent tubes, glass, plastics, chemicals and computers.

http://www.jcaho.org -- Joint Commission on Accreditation of Healthcare Organizations (JCAHO). Publications, ordering information and links to many health care web sites.

http://www.turi.org/P2GEMS/ -- Massachusetts Toxics Use Reduction Institute (TURI). Internet search tool for all types of pollution prevention.

http://www.state.me.us/dep/p2list.htm -- State of Maine. Links to pollution prevention web sites.

http://www.uvm.edu/~dceweb/profprog/healthCare/index.html -- University of Vermont. Training (teleconferences, seminars, conferences, videos, CD-ROMs) on waste reduction in health care.

http://www.epa.gov/envirosense/ -- USEPA Envirosense. Common sense solutions to environmental problems. Guidance for small businesses. Alternatives to solvents.

http://www.epa.gov/epahome/publications.htm -- USEPA National Service Center for Environmental Publications (formerly NCEPI), the central repository for all free EPA documents.

http://www.epa.gov/opptintr/p2home -- USEPA Office of Pollution Prevention and Toxics Pollution Prevention. Includes USEPA Pollution Prevention Clearinghouse, information on conferences, workshops and training. Click on "Publications" for Hospitals for a Healthy Environment.

http://www.besmart.org -- University of Wisconsin Extension, Waste reduction ideas for dental, veterinary and medical clinics and other businesses. Click on "business" then on clinic type. See also "other business tips", "hospitality" and "waste lamps."

Medical waste regulations

http://www.epa.gov/epaoswer/other/medical/index.htm -- USEPA medical waste home page. Includes links to federal and state regulations about medical waste and links to publications.

http://www.dnr.state.wi.us/ -- Wisconsin DNR. Includes links to administrative codes and statutes, the Wisconsin Recycling Markets Directory and publications about medical waste, pollution prevention and hazardous waste management.

http://www.legis.state.wi.us/Statutes.html OR http://www.legis.state.wi.us/rsb/stats.html Wisconsin statutes.

http://www.legis.state.wi.us/rsb/code/ -- Wisconsin administrative rules. Click on "Natural Resources" then "Chs. 500-590" then "NR 526" for medical waste rules, or "NR 502" for requirements for licensed storage and treatment facilities, or "NR 520" for fees.

Infection control

http://epi-center.ucsf.edu -- The Epidemiology and Prevention Interventions Center. Includes PEPNet for treatment protocol for post-exposure prophylaxis (that is, what to do if you may have been exposed to blood or body fluids). Also includes PEPline, the National Clinician's Post-Exposure Prophylaxis Hotline, a free consultation service for clinicians treating occupational exposure to HIV and other bloodborne pathogens. Phone consultations available 24 hr/day, 7 days/week at (888) HIV-4911.

http://www.osha.gov/ -- Occupational Safety and Health Administration (OSHA). Bloodborne pathogen standard, TB standard. Searchable guidance on topics such as disposal of chemotherapy drugs.

http://www.wisc.edu/bbp/ -- UW-Madison Safety Department, Occupational Health program. Bloodborne pathogen training on the internet.

Who Offers Technical Assistance?

DNR Waste Management Contact your local waste management specialist or the Medical Waste Coordinator, DNR - WA/3, PO Box 7921, Madison WI 53707-7921 Phone: (608) 266-2111. FAX: (608) 267-2768. E-mail: medwaste@.dnr.state.wi.us Waste management home page: http://www.dnr.state.wi.us/org/aw/wm/ includes the Wisconsin Recycling Markets Directory, names and phone numbers of waste management specialists, answers to frequently asked questions and medical waste publications.

DNR Cooperative Environmental Assistance Health Care Sector Specialist. Phone: (608) 267-9700. FAX: (608) 267-0496. E-mail: cea@dnr.state.wi.us Web: http://www.dnr.state.wi.us/org/caer/cea/Publications about hazardous waste management and pollution prevention.

University of Wisconsin Extension Solid and Hazardous Waste Education Center (SHWEC) Contact for medical waste: Steve Brachman, Waste Reduction Specialist. Phone: (414) 227-3160. FAX: (414) 227-3165. E-mail: brachman@csd.uwm.edu Contact for other wastes: SHWEC, 610 Langdon St., Room 529, Madison, WI 53703. Phone: (608) 262-0385. Web: http://shwec.uwsp.edu

EPA Pollution Prevention Information Clearinghouse Contact: USEPA, 401 M. St., SW (7409), Washington, DC 20460. Phone: (202) 260-1023. FAX: (202) 260-4659. E-mail: ppic@epamail.epa.gov Web: http://www.epa.gov/opptintr/p2home

EPA RCRA/Superfund Hotline Publicly accessible responses to questions about EPA regulations. Phone: (800) 424-9346. Web: http://www.epa.gov/epaoswer/hotline/index.htm

Business Materials Exchange of Wisconsin (BMEX) Helps match materials to potential users. Contact: 136 W. Grand Avenue, Suite 100, Beloit, WI 53511. Phone: (800) 364-3233. Fax: (608) 364-1161. Email: bmex@wr.net

Great Lakes Natural Resource Center Information about mercury reduction in healthcare. Contact: 506 East Liberty, 2nd Floor, Ann Arbor, MI 48104-2210. Phone: (734) 769-3351. Fax: (734) 769-1449. Web: http://www.nwf.org/greatlakes/pp/hosprpt.html E-mail: nwfgrlks@igc.apc.org.

Healthcare Resources Conservation Coalition Organization of suppliers, hospitals and waste companies promoting waste minimization in healthcare. Contact: HRCC, PO Box 2066, Palatine, IL 60078-2066.

Phone: (847) 604-3325. Fax: (847) 202-0427. email: hrcc@albanyonline.com Web: http://www.albanyonline.com/hrcc

Health Care Without Harm The Campaign for Environmentally Responsible Health Care. Contact: the Center for Health, Environment and Justice, PO Box 6806, Falls Church VA, 22040. Phone: (703) 237-2249. Fax: (703) 237-8389 E-mail: cchw@essential.org Web: http://www.noharm.org/

Recovered Medical Equipment for the Developing World (REMEDY). Offers an inservice program to explain how to collect and distribute excess supplies within the operating room suite. Contact: Darryl Rotman Kuperstock, REMEDY, 3-TMP, 333 Cedar Street, PO Box 208051, New Haven, CT 06520-8051. Phone: (203) 785-2802, ext.3-9553. FAX: (203) 785-6664. Email: remedy@biomed.med.yale.edu Web: http://www.remedyinc.org

Steel Recycling Institute (SRI) Helps commercial institutions (including hospitals) to maximize the recovery and recycling of steel cans and other metal waste. Contact: SRI, 680 Anderson Drive, Pittsburg, PA 15220-2700. Phone: (800) 876-1226. Fax: (412) 922-3213. Email: sri@recycle-steel.org Web: http://www.recycle-steel.org

American Plastics Council (APC) Offers assistance for recycling plastics from healthcare. Contact: 1801 K Street NW, Suite 701 L, Washington, DC 20006-1301. Phone: (800) 243-5790. Web: http://www.plasticsresource.com

Where to Donate Supplies and Used Medical Equipment?

Contact the organization before sending donations. Donate locally to AIDs support groups, the American Red Cross, schools, animal shelters, veterinarians, and health practitioners who volunteer locally or overseas.

Wheelchair Recycling Program Provides mobility with dignity to individuals in Wisconsin and the world. Currently accepting mobility devices and other medical equipment and supplies. Contact: Program Director, 3531 International Lane, Madison, WI 53704. Phone: (608) 243-1785. FAX: (608) 243-1787. Web: http://www.wrp.org Email: wrp@itis.com

Brother to Brother International, Inc. Provides free computer matching of institutional donation of medical supplies and other items to suitable non-profit recipients. Contact: BBI, PO Box 27634, Tempe, AZ, 85285-7634. Phone: (800) 642-1616. email: bbi@worldvision.org Web: http://www.bbi.org

MediResource Network. Forum for professionals to buy, sell and donate medical products and equipment. Contact: Eric Swenson, MRN, PO Box 1449, Castle Rock, CO 80104-1449. Phone: (303) 814-9545. FAX: (303) 814-9544. Email: eswenson@mrn.com Web: http://mrn.com

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Hard copy: attach state map